

## SEQUENCE LISTING

&lt;110&gt; Tsien, Roger Y.

Heim, Roger

&lt;120&gt; Modified Green Fluorescent Proteins

&lt;130&gt; 39754/0861

&lt;140&gt; US 10/024,686

&lt;141&gt; 2001-12-17

&lt;150&gt; 09/057,995

&lt;151&gt; 1998-04-09

&lt;150&gt; 08/753,144

&lt;151&gt; 1996-11-20

&lt;150&gt; 08/727,452

&lt;151&gt; 1997-03-20

&lt;150&gt; PCT/US95/14692

&lt;151&gt; 1995-11-13

&lt;150&gt; 08/337,915

&lt;151&gt; 1994-11-10

&lt;160&gt; 5

&lt;170&gt; FastSEQ for windows Version 4.0

&lt;210&gt; 1

&lt;211&gt; 716

&lt;212&gt; DNA

&lt;213&gt; Aequorea victoria

&lt;400&gt; 1

```

atgagtaaag gagaagaact tttcactgga gttgtcccaa ttcttgttga attagatggg 60
gatgttaatg ggcacaaatt ttctgtcagt ggagagggtg aaggatgatgc aacatacggg 120
aaacttaccc tttaaatttat ttgcactact ggaaaaactac ctgttccatg gccaacactt 180
gtcactactt tctcttatgg tgttcaatgc ttttcaagat acccagatca tatgaaacgg 240
catgactttt tcaagagtgc catgcccga ggttatgtac aggaaagaac tatatttttc 300
aaagatgacg ggaactacaa gacacgtgct gaagtcaagt ttgaagggtga tacccttggt 360
aatagaatcg agttaaaagg tattgatatt aaagaagatg gaaacattct tggacacaaa 420
ttggaataca actataactc acacaatgta tacatcatgg cagacaaaca aaagaatgga 480
atcaaagtta acttcaaaat tagacacaac attgaagatg gaagcgttca actagcagac 540
cattatcaac aaaatactcc aattggcgat ggccctgtcc ttttaccaga caaccattac 600
ctgtccacac aatctgccct ttcgaaagat cccaacgaaa agagagacca catggtcctt 660
cttgagtgtg taacagctgc tgggattaca catggcatgg atgaactata caaata 716

```

&lt;210&gt; 2

&lt;211&gt; 238

&lt;212&gt; PRT

&lt;213&gt; Aequorea victoria

&lt;400&gt; 2

```

Met Ser Lys Gly Glu Glu Leu Phe Thr Gly Val Val Pro Ile Leu Val
 1           5           10           15
Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu
          20           25           30
Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys

```

39754-0861US.TXT

Thr	Thr	Gly	Lys	Leu	Pro	Val	Pro	Trp	Pro	Thr	Leu	Val	Thr	Thr	Phe
50						55					60				
Ser	Tyr	Gly	Val	Gln	Cys	Phe	Ser	Arg	Tyr	Pro	Asp	His	Met	Lys	Arg
65					70					75					80
His	Asp	Phe	Phe	Lys	Ser	Ala	Met	Pro	Glu	Gly	Tyr	Val	Gln	Glu	Arg
				85					90					95	
Thr	Ile	Phe	Phe	Lys	Asp	Asp	Gly	Asn	Tyr	Lys	Thr	Arg	Ala	Glu	Val
			100					105					110		
Lys	Phe	Glu	Gly	Asp	Thr	Leu	Val	Asn	Arg	Ile	Glu	Leu	Lys	Gly	Ile
		115					120					125			
Asp	Phe	Lys	Glu	Asp	Gly	Asn	Ile	Leu	Gly	His	Lys	Leu	Glu	Tyr	Asn
	130					135					140				
Tyr	Asn	Ser	His	Asn	Val	Tyr	Ile	Met	Ala	Asp	Lys	Gln	Lys	Asn	Gly
145					150					155					160
Ile	Lys	Val	Asn	Phe	Lys	Ile	Arg	His	Asn	Ile	Glu	Asp	Gly	Ser	Val
				165					170					175	
Gln	Leu	Ala	Asp	His	Tyr	Gln	Gln	Asn	Thr	Pro	Ile	Gly	Asp	Gly	Pro
			180					185					190		
Val	Leu	Leu	Pro	Asp	Asn	His	Tyr	Leu	Ser	Thr	Gln	Ser	Ala	Leu	Ser
		195					200					205			
Lys	Asp	Pro	Asn	Glu	Lys	Arg	Asp	His	Met	Val	Leu	Leu	Glu	Phe	Val
	210					215					220				
Thr	Ala	Ala	Gly	Ile	Thr	His	Gly	Met	Asp	Glu	Leu	Tyr	Lys		
225					230					235					

<210> 3  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe

<400> 3  
 ggatcccccc gctgaattca tg 22

<210> 4  
 <211> 15  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe

<400> 4  
 aaataataag gatcc 15

<210> 5  
 <211> 33  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe

<400> 5  
 ggtaagcttt tatttgtata gttcatccat gcc 33